

# Nighttime image dehazing using color cast removal and dual path multi-scale fusion strategy

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Frontiers of Computer Science, DOI: [10.1007/s11704-021-0162-x](https://doi.org/10.1007/s11704-021-0162-x)

# Problems & Ideas

- **Problems of Nighttime Image Dehazing**
  - Severe color distortion, more complex lighting conditions, and lower contrast.
  - Transmission map and atmospheric light are difficult to be accurately acquired.
- **Color correction and a dual path fusion strategy**
  - Color correction used retinal and visual cortex mechanism of mammals.
  - Multiple under-exposure and contrast enhanced inputs employed contrast assessment metric and saturation estimator as normalized weight maps.

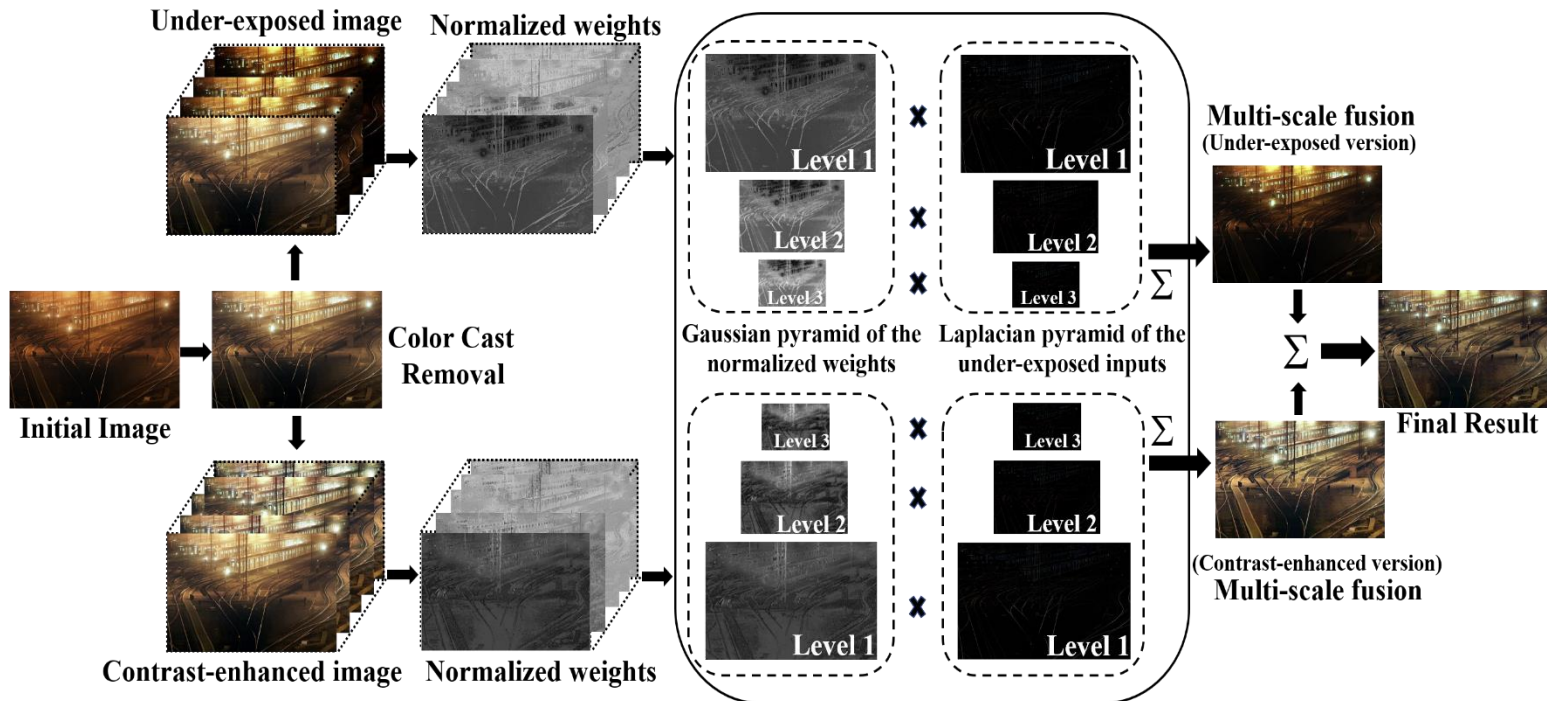
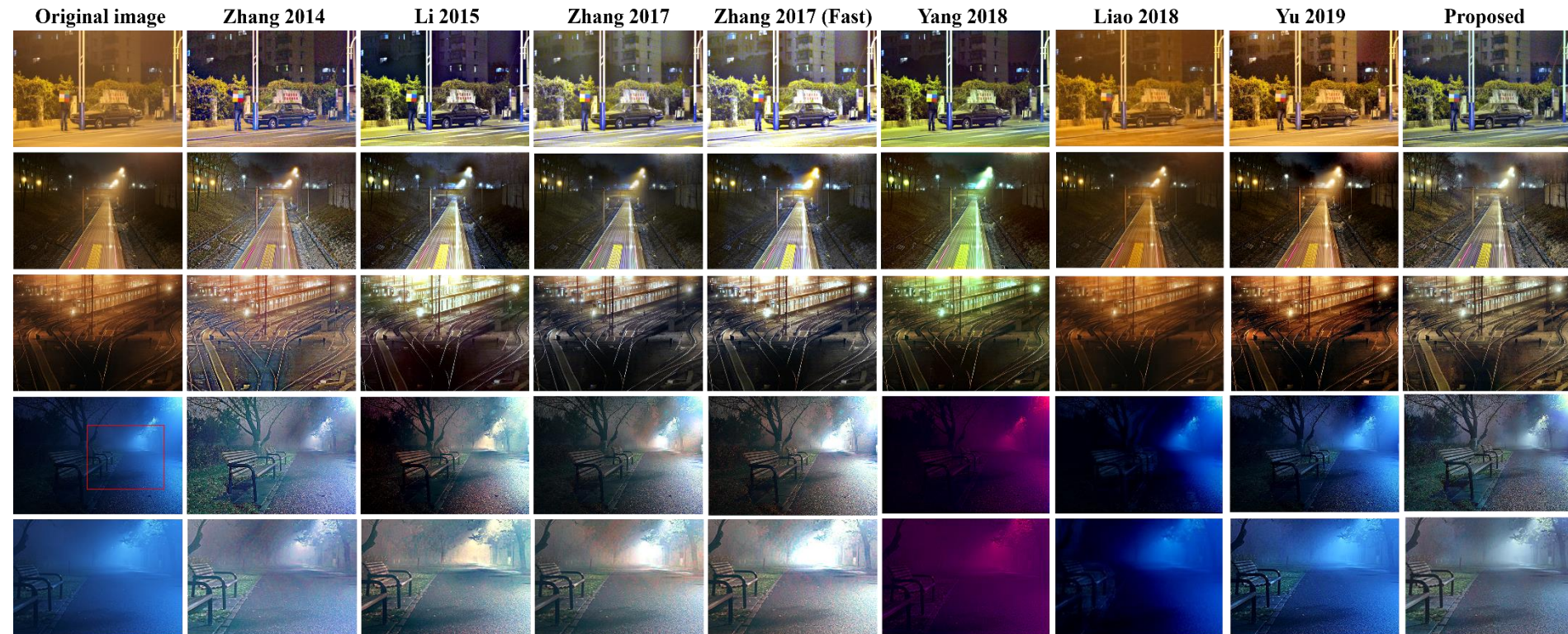


Fig.1 Overview of our proposed dehazing scheme.

# Main Contributions

- Removing color cast.
- Improving contrast and visibility of nighttime hazy images.



**Fig.2** Comparisons of proposed method with conventional methods